

WHAT IS CLAIMED IS:

1. A CATV conditional access system comprising:  
a plurality of analog head ends for distributing a picture  
signal of an analog program and a picture signal of a transmitted  
5 digital program to a terminal belonging to each of areas; and  
a digital head end for transmitting a picture signal of a  
digital program to the plurality of analog head ends,  
wherein said digital head end transmits to the terminals  
within the areas, data containing both an area code used to  
10 recognize the own area belonging to each area, and a channel  
contrastive table for comparing a management number and a channel  
display number of an analog program every area, said management  
number being given to each of the analog program and being commonly  
used for the respective areas, and  
15 each of said terminals stores thereinto the area code and  
the channel contrastive table, and retrieves the corresponding  
management number by comparing the channel display number of the  
analog program set every area and the channel contrastive table  
based upon the area code, and then displays the analog program  
20 of the retrieved management number.

2. The CATV conditional access system as claimed in claim  
1, wherein both the data indicative of the area code and the data  
indicative of the channel contrastive table are transmitted from  
25 said digital head end to the terminals of the respective areas  
respectively via either a channel used to transmit the picture  
signal or another data transmission channel which is separately

provided with the channel for transmitting the picture signal.

3. The CATV conditional access system as claimed in claim 1, wherein said digital head end transmits data about an analog channel transmission contrastive table to the terminals within the plurality of areas, said analog channel transmission contrastive table comparing the management number with a transmission frequency of an analog program within each of the areas, and

each of the terminals stores thereinto the analog channel transmission contrastive table; when a channel display number of an analog program is designated, said each terminal retrieves a management number corresponding to the designated channel display number from the channel contrastive table based upon the area code; and said each terminal retrieves a transmission frequency of an analog program corresponding to the retrieved management number from the analog channel transmission frequency contrastive table so as to be tuned to the retrieved transmission frequency.

4. The CATV conditional access system as claimed in claim 3, wherein the data indicative of the analog channel transmission frequency contrastive table are transmitted from said digital head end to the terminals of the respective areas respectively via either a channel used to transmit the picture signal or another data transmission channel which is separately provided with the channel for transmitting the picture signal.

5. A CATV conditional access method comprising the steps of:

providing a plurality of analog head ends for distributing a picture signal of an analog program and a picture signal of a transmitted digital program to a terminal belonging to each of areas;

providing a digital head end for transmitting a picture signal of a digital program to the plurality of analog head ends;

transmitting to the terminals within the areas, data containing both an area code used to recognize the own area belonging to each area, and a channel contrastive table for comparing a management number and a channel display number of an analog program every area, said management number being given to each of the analog program and being commonly used for the respective areas;

storing in each of said terminals the area code and the channel contrastive table;

retrieving the corresponding management number by comparing the channel display number of the analog program set every area and the channel contrastive table based upon the area code; and

displaying the analog program of the retrieved management number.

Add  
a1